

RAW SEQUENCE LISTING

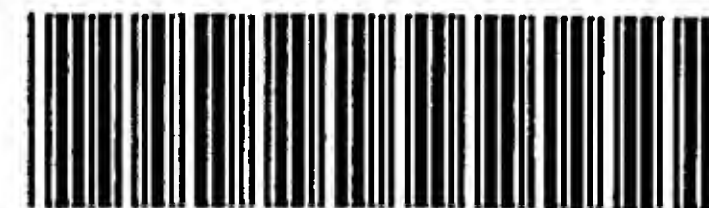
The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/707,747A

Source: FWO

Date Processed by STIC: 8/3/05

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IFWO

RAW SEQUENCE LISTING

DATE: 08/03/2005

PATENT APPLICATION: US/10/707,747A

TIME: 15:05:14

Input Set : D:\Sequence Listings.ST25.txt

Output Set: N:\CRF4\08032005\J707747A.raw

3 <110> APPLICANT: University of South Florida

5 <120> TITLE OF INVENTION: DETECTION OF RED TIDE ORGANISMS BY NUCLEIC ACID

AMPLIFICATION

7 <130> FILE REFERENCE: 1372.120PCR

C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/707,747A

C--> 9 <141> CURRENT FILING DATE: 2004-01-08

9 <160> NUMBER OF SEQ ID NOS: 8

11 <170> SOFTWARE: PatentIn version 3.2

13 <210> SEQ ID NO: 1

14 <211> LENGTH: 20

15 <212> TYPE: DNA

16 <213> ORGANISM: artificial sequence

18 <220> FEATURE:

19 <223> OTHER INFORMATION: Forward primer designed to amplify and detect the 91-bp region of

20 the rbcL gene of K. brevis.

22 <400> SEQUENCE: 1

23 tgaaacgtta ttgggtctgt

20

26 <210> SEQ ID NO: 2

27 <211> LENGTH: 22

28 <212> TYPE: DNA

29 <213> ORGANISM: artificial sequence

31 <220> FEATURE:

32 <223> OTHER INFORMATION: Reverse primer designed to amplify and detect the 91-bp region

33 of the rbcL gene specific K. brevis.

35 <400> SEQUENCE: 2

36 aggtacacac tttcgtaaac ta

22

39 <210> SEQ ID NO: 3

40 <211> LENGTH: 19

41 <212> TYPE: DNA

42 <213> ORGANISM: artificial sequence

44 <220> FEATURE:

45 <223> OTHER INFORMATION: Fluorogenic probe designed to amplify and detect the 91-bp

46 region of the rbcL gene specific K. brevis.

48 <400> SEQUENCE: 3

49 ttaaccttag tctcgggta

19

52 <210> SEQ ID NO: 4

53 <211> LENGTH: 19

54 <212> TYPE: DNA

55 <213> ORGANISM: artificial sequence

57 <220> FEATURE:

58 <223> OTHER INFORMATION: Real Time NASBA forward primer for the marker region of rbcL gene

59 specific to K. brevis.
61 <400> SEQUENCE: 4
62 acgttattgg gtctgtgta

19

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of

65 <210> SEQ ID NO: 5
 66 <211> LENGTH: 50
 67 <212> TYPE: DNA
 68 <213> ORGANISM: artificial sequence
 70 <220> FEATURE:
 71 <223> OTHER INFORMATION: Reverse primer for real time NASBA to detect the marker region
 72 the rbcL gene specific to K. brevis.
 74 <400> SEQUENCE: 5
 75 aattctaata cgactcacta tagggagaag gtacacactt tcgtaaacta 50
 78 <210> SEQ ID NO: 6
 79 <211> LENGTH: 33
 80 <212> TYPE: DNA
 81 <213> ORGANISM: artificial sequence
 83 <220> FEATURE:
 84 <223> OTHER INFORMATION: Molecular beacon used for real time NASBA assay.
 86 <400> SEQUENCE: 6
 87 cgatcgctta gtctcgggtt attttttcga tcg 33
 90 <210> SEQ ID NO: 7
 91 <211> LENGTH: 19
 92 <212> TYPE: DNA
 93 <213> ORGANISM: artificial sequence
 95 <220> FEATURE:
 96 <223> OTHER INFORMATION: PCR primer set was designed with sequence data from Karenia
 97 mikimotoi (GenBank accession no. ABO34635) by modifying existing
 98 chromophyte rbcL primers in order to amplify a 554-bp region
 99 (approximately one-third) of Karenia's rbcL gene (forward
 102 <400> SEQUENCE: 7
 103 atgatgaraa yattaactc 19
 106 <210> SEQ ID NO: 8
 107 <211> LENGTH: 21
 108 <212> TYPE: DNA
 109 <213> ORGANISM: artificial sequence
 111 <220> FEATURE:
 112 <223> OTHER INFORMATION: PCR primer set was designed with sequence data from Karenia
 113 mikimotoi (GenBank accession no. ABO34635) by modifying existing
 114 chromophyte rbcL primers in order to amplify a 554-bp region
 115 (approximately one-third) of Karenia's rbcL gene (reverse
 118 <400> SEQUENCE: 8
 119 atttgtcccg cattgattcc t 21

VERIFICATION SUMMARY

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date